



JPW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

HANS-JUERGEN ENGELMANN
EHRENFRIED ZSCHECH
PETER HUEBLER

Group Art Unit: 2811

Examiner: Unknown

Serial No.: 10/813,223

Attorney Docket: 2000.110900/DE0220

Filed: March 30, 2004

Customer No.: 23720

For: METAL LINE HAVING AN
INCREASED RESISTANCE TO
ELECTROMIGRATION ALONG AN
INTERFACE OF A DIELECTRIC
BARRIER LAYER BY IMPLANTING
MATERIAL INTO THE METAL LINE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

CERTIFICATE OF MAILING

I hereby certify that this paper or fee is being deposited with the United States Postal Service with sufficient postage as "FIRST CLASS MAIL" addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, this 9th day of August, 2004.

Mary Paul

Signature

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed foreign patent documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner. Because the filing date of the present application is after June 30, 2003, copies of the listed U.S. patents are not included.

In accordance with 37 C.F.R §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

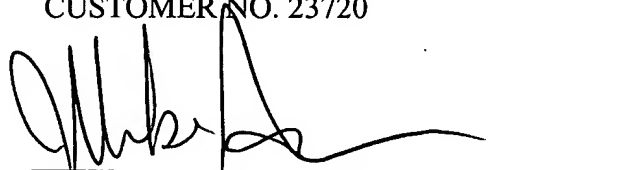
an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.97(e)(1), Applicants hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the present statement, as evidenced by the date of the enclosed letter from our associate in Germany.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

WILLIAMS, MORGAN & AMERSON
CUSTOMER NO. 23720

A handwritten signature in black ink, appearing to read 'J. Mike Amerson', is written over a horizontal line.

Date: August 9, 2004

J. Mike Amerson
Reg. No. 35,426
10333 Richmond, Suite 1100
Houston, Texas 77042
(713) 934-4055
(713) 934-7011 (facsimile)

ATTORNEY FOR APPLICANTS

Form PTO-1449 (modified)

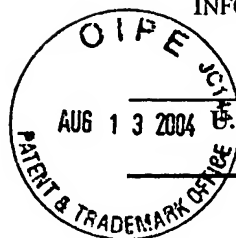
Atty. Docket No.
2000.110900/DE0220Serial No.
10/813,223

List of Patents and Publications for Applicant's

Applicant
Hans-Juergen Engelmann, Ehrenfried Zschech and
Peter Huebler

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:
March 30, 2004Group:
2811U.S. Patent Documents
See Page 1Foreign Patent Documents
See Page 1Other Art
See Page 1

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	6,023,100	2/08/00	Tao <i>et al.</i>	257	762	
	A2						
	A3						
	A4						
	A5						

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 01/97283 A1	12/20/01	PCT	H01L	21/768	Yes
	B2	WO 01/08213 A1	2/01/01	PCT	H01L	21/768	Yes
	B3						

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	
	C2	
	C3	

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.